

CLAIMS

What is claimed is:

1. An integrated air conditioner, comprising:
a condenser casing to house a condenser and a condenser fan therein, the condenser casing comprising:
a front plate,
an upper cover extending from an upper edge of the front plate, and
a plurality of hinges integrally provided between the front plate and the upper cover, spaced apart at regular intervals,
wherein the upper cover rotates around the hinges, to be perpendicular to the front plate.
2. The integrated air conditioner according to claim 1, wherein the condenser fan is provided under the upper cover, and the hinges are positioned in front of the condenser fan, so that the condenser fan is operated at a position which is offset from the hinges.
3. The integrated air conditioner according to claim 1, wherein the upper cover comprises:
a step portion provided along a middle portion of the upper cover;
a front portion provided in front of the step portion, the front portion being lower than the step portion;
a rear portion provided in back of the step portion, the rear portion being higher than the step portion;
wherein the step portion, the front portion, and the rear portion are formed as a single structure, and the condenser fan is provided under the rear portion of the upper cover to allow a gap between the condenser fan and the upper cover.
4. The integrated air conditioner according to claim 1, further comprising a hook projected from an inner surface of the upper cover at a rear edge of the upper cover, to lock the upper cover to the condenser.

5. The integrated air conditioner according to claim 4, wherein the condenser comprises a refrigerant pipe, and the hook is provided with an arc-shaped groove corresponding to a shape of the refrigerant pipe so as to fit over the refrigerant pipe.

6. The integrated air conditioner according to claim 4, further comprising a screw hole at a rear portion of the upper cover to couple the upper cover to an upper end of the condenser.

7. The integrated air conditioner according to claim 3, further comprising at least one rim provided along the rear portion of the upper cover, to increase a structural strength of the upper cover.

8. The integrated air conditioner according to claim 3, further comprising a plurality of ribs provided along the step portion at regular intervals to increase the structural strength around the step portion.

9. The integrated air conditioner according to claim 1, further comprising an opening in the front plate so that the condenser fan may be set in the condenser casing through the opening.

10. The integrated air conditioner according to claim 1, further comprising a recess part at a side of the front plate, to receive an extended portion of the condenser.

11. The integrated air conditioner according to claim 1, further comprising a cover part at a side of the front plate, to cover a side of the condenser, preventing air from escaping around the condenser.

12. An integrated air conditioner, comprising:
a condenser casing to house a condenser and a condenser fan therein, the condenser casing comprising:
a front plate,
an upper cover extending from an upper edge of the front plate,
a step portion provided along a middle portion of the upper cover, and

a plurality of hinges integrally provided between the front plate and the upper cover, spaced apart at regular intervals,

wherein the upper cover is rotated around the hinges to be perpendicular to the front plate, and the condenser fan is provided under the upper cover at a position behind the step portion so that the condenser fan is offset from the hinges and a gap is provided between the upper cover and the condenser fan.

13. A condenser casing for a condenser and a condenser fan in an integrated air conditioner, comprising:

an upper cover coupled to the condenser casing by at least one hinge;

wherein the upper cover rotates to be coupled to the condenser and cover the condenser and the condenser fan.

14. A condenser casing for a condenser and a condenser fan in an integrated air conditioner, comprising:

an upper cover coupled to the condenser casing by at least one hinge; and

a step portion provided at a predetermined position of the upper cover;

wherein a part of the upper cover raised by the step portion covers the condenser fan so that a gap is provided between the condenser fan and the upper cover.